

AST® Twinax Adapter Handler Installation

Installation Guide
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AST TWINAX ADAPTER HANDLER INSTALLATION

Overview

The AST® twinax adapter handler enables the AST Enhanced 5251/11 Plus and AST Enhanced 5251/11A Plus products to work with the IBM® PC support software for the AS/400. In a typical application, information goes from your PC to the host in the following sequence: 1) your PC application, 2) AST twinax adapter program, 3) one of the two AST 5251/11 adapter boards, and 4) IBM AS/400 host. These instructions apply to the twinax adapter program which provides an interface between your PC and one of the two AST 5251/11 adapter boards.

Kit Contents

Along with these instructions, the AST twinax adapter kit contains one 5.25-inch 360-kilobyte (KB) AST distribution disk.

Requirements

You should have the following:

- PC-DOS® or MS-DOS® Version 3.3 or later
- At least 512-KB of random-access memory (RAM)
- One 5.25-inch floppy drive with a capacity of 360 KB or larger and one of the following: one 360-KB or larger capacity floppy drive (either 5.25 or 3.5 inch), one hard drive with at least 600 KB free, or one network drive with at least 600 KB free
- IBM AS/400 PC Support package
- One of the following boards with its accompanying user's manual:

Adapter Board	User's Manual
AST Enhanced 5251/11 Plus	000492-001
AST Enhanced 5251/11A Plus	000620-001

- AS/100 operating system Version 1.2
- Connection to AS/400 host

Installation

You should use the *IBM PC Support: Installation Guide* to set up the host. For your PC setup, you must use these instructions and not the IBM INSTALL program. Installation consists of: loading AST files onto a working disk directory, creating or modifying the CONFIG.SYS file, creating a CONFIG.PCS file, and modifying the ASTPCS.BAT file. Subsequently, you run ASTPCS.BAT and select options at the prompts to use the AST twinax adapter program.

How you install the AST twinax adapter program depends upon whether you will use one or two floppy disks, a hard disk, or a network disk. Installation also depends upon your choice of default drive from which the AST twinax adapter program loads. These instructions guide you through whichever options you choose.

STEP 1

Back up the AST distribution disk.

Using the DOS FORMAT command, format one blank floppy disk. Label this floppy disk AST Twinax Disk Backup. Using the DOS DISKCOPY command, copy the AST distribution disk to the AST Twinax Disk Backup. Attach a write-protect tab to the backup and store it in a safe place.

STEP 2

Make working disks that hold the files needed to use the AST twinax adapter program. You may use two 360-KB floppy disks, one 720-KB (or larger capacity) floppy disk, a hard disk, or a network disk.

If you are using two 360-KB floppy disks, label one floppy disk Working Disk 1 and the other Working Disk 2. Format Working Disk 1 using FORMAT /S (format with system files) and create a directory named PCS using the MKDIR command. Format Working Disk 2 using FORMAT (format without system files), copy COMMAND.COM to it, and create a directory named PCS.

If you are using one 720-KB (or larger capacity) floppy disk, label it Working Disk. Format the Working Disk using FORMAT /S (format with system files) and create a directory named PCS using the MKDIR command.

If you are using a hard disk or network disk, create a directory named PCS on that disk using the MKDIR command.

STEP 3

In this step you will copy files. The drive and directory from which you do the copying is optional; however, you may find copying easier if you change the drive and directory to the one from which you are copying. You can use the CHDIR command to change directories.

Copy the following files from the AST distribution disk to the directory PCS of your Working Disk 1 (360-KB capacity floppy disk), Working Disk (720-KB or larger capacity), hard disk, or network disk:

ASTTWNH.EXE
ASTPCS.BAT
CONFIG.PCS

Copy the following files from the IBM distribution disk 1 to PCS of your Working Disk 1, Working Disk, hard disk, or network disk:

EIMPCS.SYS
ECYDDX.SYS
FSDD.SYS

Copy the following files from the IBM distribution disk 1 to PCS of your Working Disk 2, Working Disk, hard disk, or network disk:

FSPC.EXE
FSPC.HLP
XXRTRS.MRI

Copy the following files from the IBM distribution disk 2 to PCS of your Working Disk 2, Working Disk, hard disk, or network disk:

STARTRTR.EXE
E5250RTR.EXE
STOPRTR.EXE

If you are using two floppy disks, copy ASTPCS.BAT from the AST distribution disk to your Working Disk 2.

The file ASTWNAH.EXE (parameters appear in the bulleted list that follows), which you copied in this step, is the AST twinax adapter program. Several parameters are allowed on the command line with ASTWNAH.EXE. You normally do not need to specify parameters. If you need to do so, however, add them to the line in ASTPCS.BAT (on Working Disk 1 for two floppy disks) that invokes ASTWNAH.EXE, using your favorite text editor. The parameters available and their meanings are as follows:

- /lxx for I/O address; valid values for xx are 25, 35, and 55 for I/O address 250, 350, and 550 respectively
- /Mx or /My for memory address; valid values for x are 9, C, D, E, or F for addresses 90000h, C0000h, D0000h, E0000h, or F0000h respectively; valid values for yy are C0, C4, C8, CC, D0, D4, D8, or DC for address C0000h, C4000h, C8000h, CC000h, D0000h, D4000h, D8000h, or DC000h respectively
- /Lx for interrupt level numbers; valid values are 2—5

STEP 4

Using a text editor, you must append three lines to your CONFIG.SYS file (located in the root directory of the disk from which your system boots). Note that this boot disk may differ from the disk that holds the AST twinax adapter program. The AST distribution disk has a CONFIG.SYS file for you to use as a model.

If you have not done so already, choose a default drive from which the AST twinax adapter program will load.

Append the following lines to the CONFIG.SYS file:

```
DEVICE=C:\PCS\EIMPCS.SYS
DEVICE=C:\PCS\ECYDDX.SYS
DEVICE=C:\PCS\FSDD.SYS
```

If the default drive is not C, replace C in the three lines with the appropriate drive letter.

A model CONFIG.SYS file is on the AST distribution disk.

NOTE

The CONFIG.SYS must assign at least 15 files (FILES=15) for proper operation of the AST twinax adapter program.

Any expanded memory drivers should be placed last in the CONFIG.SYS file.

STEP 5

Again using a text editor, create a CONFIG.PCS file in the directory PCS of Working Disk 2 (360-KB capacity floppy disk), Working Disk (720-KB or larger capacity), hard disk, or network disk. Put the following three lines into the file:

```
RTYP 5250
RTLN APPN.xxxx
EMLI yyyy,z
```

The parameters signify the following: RTYP 5250 specifies the type of router for the AST twinax adapter program name, xxxx specifies the PC location name (specified when you install the PC support or your AS/400), yyyy specifies the system, and z specifies the station address, which may be any number from 0 to 6 and must be unique on a twinax line. Note that these parameters may differ for your site. See your AS/400 system administrator for parameter information.

A model CONFIG.PCS file is on the AST distribution disk.

STEP 6

You should verify that the ASTPCS.BAT file (on both Working Disk 1 and Working Disk 2 for two floppy disks) is set up to your site requirements. For your convenience, all optional command lines in this file appear as comments. You may remove the REM keyword from the following lines to activate the command:

- REM I:STARTMSG \PCS\CONFIG.SYS
Start message system
- REM I:VPRT
Start virtual printer
- REM I:WSF /T
Start workstation; both this line and the line REM I:STARTWSF 1 must have their REM keyword removed to start workstation
- REM I:STARTWSF 1
Start workstation; both this line and the line REM I:WSF /T must have their REM keyword removed to start workstation

- REM I:PCO \PCS\CONFIG.PCS
Start organizer

STEP 7

The AST twinax adapter program is now installed. Before invoking the program, you need to get a user login ID, a password for common user ID, and an AS/400 ID and password. To invoke the program do the following:

- If you are using one or two floppy disks, insert your Working Disk 1 (360-KB capacity) or Working Disk (720-KB or larger capacity) into the default drive.
- Reboot the system to invoke CONFIG.SYS.
- Change the DOS directory to the default drive.
- Type ASTPCS at the DOS prompt (include a path name to ASTPCS if necessary).
- When you see a prompt to insert your working disk, insert Working Disk 2 if you are using two floppy disks. Otherwise, just press the Enter key.
- Enter your passwords and IDs at the appropriate prompts.

Note that PC Support does not use any 5250 emulation software. You are now connected to the AS/400. From here, you can proceed with your application.

